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Amendments to the Claims

1. (Currently Amended) A cathode ray tube comprising:

a panel of which an outer surface is substantially flat;

a shadow mask installed with a certain interval from an inner surface of

the panel, having a plurality of apertures through which electron beams pass,

and formed as a pin-cushion shape in which long and short sides of the

shadow mask are inwardly concaved; and

the a mask frame for fixing and supporting the shadow mask, wherein

long and short sides of the mask frame are slanted from ends toward centers

thereof the center of the shadow mask in order to maintain a predetermined

interval with the long and short sides of the shadow mask.

2. (Original) The cathode ray tube of claim 1, wherein the long and

short sides of the mask frame are curvedly formed to have predetermined

curvatures from ends to centers thereof.

3. (Currently Amended) The cathode ray tube of claim 1, wherein

the following conditions are satisfied, satisfied:

R1 > R3, and

R2 > R4

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in which R1 denotes a radius of curvature of the long side of the mask frame, R2 denotes a radius of curvature of the short side of the mask frame, R3

denotes a radius of curvature of the long side of the shadow mask, and R4

denotes a radius of curvature of the short side of the shadow mask.

4. (Currently Amended) The cathode ray tube of claim 3, wherein a

following condition is satisfied, satisfied:

R3 > R4.

5. (Currently Amended) The cathode ray tube of claim 1, wherein

the following conditions are satisfied, satisfied:

 $0.3 \le DLc/DLi \le 0.5$, and

0.3≤DSc/DSi≤0.5,

in which DLc denotes an interval between the center of the long side of

the shadow mask and the center of the long side of the mask frame, DSc

denotes an interval between the center of the short side of the shadow mask

and the center of the short side of the mask frame, DLi denotes an interval

between the center of the long side of the shadow mask and a center of an

imaginary line connecting both ends of the long side of the mask frame, and

DSi denotes an interval between the center of the short side of the shadow

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mask and a center of an imaginary line connecting both ends of the short side

of the mask frame.

6. (Original) The cathode ray tube of claim 1, wherein a width of

the slanted portion of the long side slanted from the end of the long side of the

mask frame toward the center thereof is equal to or larger than 70% of a width

from the end of the long side of the mask frame toward the center thereof, and

a width of the slanted portion of the short side slanted from the end of the

short side of the mask frame toward the center thereof is equal to or larger

than 70% of a width from the end of the short side of the mask frame toward

the center thereof.

7. (Currently Amended) The cathode ray tube of claim 6, wherein

the following conditions are satisfied; satisfied:

0.3≤DL3/DLi≤0.5, and

0.3≤DS3/DSi≤0.5,

in which DL3 denotes an interval between the mask frame and the

shadow mask at a position which is located at 70% of a distance away from the

end of the long side of the mask frame toward the center thereof, DS3 denotes

an interval between the mask frame and the shadow mask at a position which

is located at 70% of a distance away from the end of the short side of the mask

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frame toward the center thereof, DLi denotes an interval between the center of

the long side of the shadow mask and a center of an imaginary line connecting

both ends of the long side of the mask frame, and DSi denotes an interval

between the center of the short side of the shadow mask and a center of an

imaginary line connecting both of the short side of the mask frame.

8. (Currently Amended) The cathode ray tube of claim 1, wherein

one of the following conditions are satisfied is satisfied:

0°≤Lcor≤15° or 0°≤Scor≤ 15°,

in which Lcor denotes a slanted angle from the end of the long side of the

mask frame toward the center thereof, and Scor denotes a slanted angle from

the end of the short side of the mask frame toward the center thereof.

9. (Currently Amended) The cathode ray tube of claim 8, wherein a

following condition is satisfied, satisfied:

0°<Lcor≤Scor≤10°.

10. (Original) The cathode ray tube of claim 1, wherein an interval

between the shadow mask and the mask frame is equal to or larger than

2.6mm.

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11. (Currently Amended) A cathode ray tube comprising:

a panel of which an outer surface is substantially flat;

a shadow mask installed with a certain interval from an inner surface of

the panel and having a plurality of apertures through which electron beams

pass; and

a mask frame for fixing and supporting the shadow mask, wherein at

least one of long and short sides of the mask frame is concaved toward an

inside the center of the mask frame.

12. (Currently Amended) The cathode ray tube of claim 11, wherein

at least one of the long and short sides of the mask frame is are formed as

curved surfaces having predetermined curvatures from the ends towards the

centers.

13. (Currently Amended) The cathode ray tube of claim 11, wherein

the following conditions are satisfied, satisfied:

R1 > R3, and

R2 > R4

in which R1 denotes a radius of curvature of the long side of the mask

frame, R2 denotes a radius of curvature of the short side of the mask frame, R3

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denotes a radius of curvature of a long side of the shadow mask, and R4

denotes a radius of curvature of a short side of the shadow mask.

14. (Currently Amended) The cathode ray tube of claim 13, wherein

a following condition is satisfied; satisfied:

R3 > R4.

15. (Currently Amended) The cathode ray tube of claim 11, wherein

the following conditions are satisfied; satisfied:

0.3≤DLc/DLi≤0.5, and

0.3≤DSc/DSi≤0.5,

in which DLc denotes an interval between a center of a long side of the

shadow mask and a center of the long side of the mask frame, DSc denotes an

interval between a center of a short side of the shadow mask and a center of

the short side of the mask frame, DLi denotes an interval between the center of

the long side of the shadow mask and a center of an imaginary line connecting

both ends of the long side of the mask frame, and DSi denotes an interval

between the center of the short side of the shadow mask and a center of an

imaginary line connecting both ends of the short side of the mask frame.

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16. (Original) The cathode ray tube of claim 11, wherein a width of

the concaved portion of the long side of the mask frame is equal to or larger

than 70% of a width from an end of the long side of the mask frame toward a

center thereof, and a width of the concaved portion of the short side of the

mask frame is equal to or larger than 70% of a width from an end of the short

side of the mask frame toward a center thereof.

17. (Currently Amended) The cathode ray tube of claim 11, wherein

the following conditions are satisfied, satisfied:

0.3≤DL3/DLi≤0.5, and

0.3≤DS3/DSi≤0.5,

in which DL3 denotes an interval between the mask frame and the

shadow mask at a position which is located at 70% of a distance away from an

end of the long side of the mask frame toward a center thereof, DS3 denotes an

interval between the mask frame and the shadow mask at a position which is

located at 70% of a distance away from an end of the short side of the mask

frame toward a center thereof, DLi denotes an interval between the center of

the long side of the shadow mask and a center of an imaginary line connecting

both ends of the long side of the mask frame, and DSi denotes an interval

between the center of the short side of the shadow mask and a center of an

imaginary line connecting both ends of the short side of the mask frame.

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18. (Currently Amended) The cathode ray tube of claim 11, wherein one of the following conditions are satisfied is satisfied:

0°≤Lcor≤15° or 0°≤Scor≤ 15°,

in which Lcor denotes a slanted angle from an end of the long side of the mask frame toward the center thereof, and Scor denotes a slanted angle from an end of the short side of the mask frame toward the center thereof.

19. (Currently Amended) The cathode ray tube of claim 18, wherein a following condition is satisfied, satisfied:

0°<Lcor≤Scor≤10°.

20. (Original) The cathode ray tube of claim 11, wherein an interval between the shadow mask and the mask frame is equal to or larger than 2.6mm.